

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
20 October 2005 (20.10.2005)

PCT

(10) International Publication Number  
**WO 2005/097168 A2**

(51) International Patent Classification<sup>7</sup>: **A61K 38/19**,  
C07K 14/52

(21) International Application Number:  
PCT/US2005/010212

(22) International Filing Date: 25 March 2005 (25.03.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
60/557,400 30 March 2004 (30.03.2004) US

(71) Applicant (for all designated States except US):  
**GRYPHON THERAPEUTICS, INC.** [—/US]; 600  
Gateway Blvd., South San Francisco, CA 94080 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **BRADBURNE,**  
**James, A.** [US/US]; Gryphon Therapeutics, Inc., 600  
Gateway Blvd., South San Francisco, CA 94080 (US). **MI-**  
**RANDA, Leslie, P.** [US/US]; Gryphon Therapeutics, Inc.,  
600 Gateway Blvd., South San Francisco, CA 94080 (US).  
**PALIARD, Xavier** [US/US]; Gryphon Therapeutics, Inc.,  
600 Gateway Blvd., South San Francisco, CA 94080 (US).

(74) Agent: **JOYCE, Catherine, M.**; Liniak, Berenato, &  
White, LLC, 6550 Rock Spring Drive, Suite 240, Bethesda,  
MD 20817 (US).

(81) Designated States (unless otherwise indicated, for every  
kind of national protection available): AE, AG, AL, AM,  
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,  
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,  
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,  
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,  
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,  
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ,  
TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA,  
ZM, ZW.

(84) Designated States (unless otherwise indicated, for every  
kind of regional protection available): ARIPO (BW, GH,  
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,  
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),  
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,  
FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO,  
SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN,  
GQ, GW, ML, MR, NE, SN, TD, TG).

**Published:**

— without international search report and to be republished  
upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guid-  
ance Notes on Codes and Abbreviations" appearing at the begin-  
ning of each regular issue of the PCT Gazette.

(54) Title: SYNTHETIC CHEMOKINES, METHODS OF MANUFACTURE, AND USES

(57) Abstract: The invention relates to synthetic chemokines, methods of manufacture and uses thereof. The synthetic chemokines of the invention include one or more amino acid deletions at the C-terminus relative to the corresponding wild type chemokine, which also can include one or more covalently attached polymers, as well one or more additional amino acid changes or chemical modifications. The invention also provides synthetic chemokines in a substantially purified oligomeric form, such as, in a monomer or dimer form. Further provided are methods for synthesizing the synthetic chemokines of the invention, pharmaceutical formulations and kits thereof, and their use as research tools and medicaments.



WO 2005/097168 A2